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NAS CECIL FIELD
5090.3a

LETTER TRANSMITTING FIELD TASK MODIFICATION REQUEST FORM FOR BP WELLS,
PETROLEUM SITES AND BUILDING 46 WITH ATTACHMENTS NAS CECIL FIELD FL
6/8/2012
TETRA TECH



TETRA TECH

PITT-06-12-025

June 8, 2012

Project Number 112G02267

NAVFAC SE
Attn: Mr. Art Sanford
4130 Faber Place Drive
North Charleston, South Carolina 29405

Reference: CLEAN Contract No. N62470-08-D-1001
Contract Task Order JM09

Subject: Field Task Modification Request Forms: BP Wells, Modification to Sampling and Analysis Plan (SAP) for Tt Petroleum Sites; and Building 46, Modification to SAP for BOA Petroleum Sites
Naval Air Station Cecil Field
Jacksonville, Florida

Dear Mr. Sanford:

Enclosed please find one copy of each subject deliverable. Copies have been sent to the members of the NAS Cecil Field Partnering Team as noted below. These documents are modifications to the Sampling and Analysis Plans in which each respective site was originally described: BP Wells in the SAP for Tetra Tech Petroleum Sites; and Building 46 in the SAP for BOA Petroleum Sites. These FTMRs will be posted to the Cecil Field DWS and incorporated in the annual review submission of this document.

These modifications were discussed and agreed upon at the May 2012 BCT meeting (Minute 2745 and Decisions 847), however, email approvals are required for the project file. Your prompt review and comment/approval is appreciated to enable the modifications to be implemented in the upcoming sampling events.

If you have any questions, please call me at 412-921-8163 or Megan Boerio 412-921-7271.

Sincerely,

Robert F. Simcik, P.E.
Task Order Manager

RFS/clm
Enclosure

cc: D. Vaughn-Wright, U.S. EPA (electronic copy)
D. Grabka, FDEP (1 copy)
M. Davidson, NAVFAC SE (electronic copy)
D. Criswell, NAVFAC SE (electronic copy)
S. Martin, NAVFAC Atlantic (electronic copy)
M. Halil, CH2MHill (electronic copy)
J. Trepanowski, Tetra Tech
S. Currie, Tetra Tech File JM09 (1 copy unbound)

Tetra Tech

661 Andersen Drive, Pittsburgh, PA 15220-2700
Tel 412.921.7090 Fax 412.921.4040 www.tetratech.com



TETRA TECH NUS FIELD TASK MODIFICATION REQUEST FORM

LTM/NAS Cecil Field
Project/Installation Name

CTO JM09, 112G02267
CTO & Project Number

03
Task Mod. Number

SAP for Petroleum Sites (April 2010)
Modification To (e.g. Work Plan)

BP Wells
Site/Sample Location

6/1/12
Date

Activity Description: At BP Wells, seven wells were being sampled on a Semi-Annual basis to monitor the groundwater COC concentrations by comparing the results against FDEP Groundwater Cleanup Target Levels (GCTLs) and Natural Attenuation Default Criteria (NADCs). Volatile Organic Compounds (VOCs) concentrations in the source area wells (CEF-BP-01S and CEF-BP-06S) continued to remain elevated at levels greater than the NADC. The Cecil Team decided at the February 2011 BCT meeting that Tetra Tech would look into various options to address the contamination at BP Wells. At the May 2011 BCT meeting, Tetra Tech proposed ORC Advanced injections, with 24 DPT injection points to be injected at the site (Minute 2682). The proposal was accepted, and Tetra Tech was directed to complete a Work Plan for ORC Advanced Injection. The Work Plan for Chemical Injection using DPT at BP Wells Site was submitted June 14, 2011 and approved by FDEP July 7, 2011. The work plan included abandonment of all wells within the area to be affected by construction of the new hangar, and installation of three new wells (two wells as replacement wells for the abandoned CEF-BP-1S and CEF-BP-6s and one new well) to evaluate the effectiveness of the ORC Advanced Injection. The locations of the abandoned wells and new locations are shown on Figures 1 and 2, respectively. It was determined at the November 2011 BCT meeting that the injection event would be conducted between JAA's demolition of the building and concrete apron in the impacted area and the construction of the new hangar (Minute 2720). Demolition was completed in early November 2011, and the ORC injection activities were conducted November 15 through November 18, 2011. Construction of the new hangar was completed in May 2012, and JAA installed the three wells as specified and agreed upon in the Work Plan on May 21, 2012. A licensed survey crew was procured to locate the placement of the monitoring well locations in the field, and a Tetra Tech representative was on-site for oversight during the monitoring well installation. The wells were installed as one-inch diameter wells with 10-foot screens from 5-15 feet below ground surface, flush with the concrete. The newly-installed monitoring wells are to be sampled for VOCs, PAHs and TRPH to evaluate the effectiveness of the ORC Advanced injection. Table 1 shows the parameters and number of samples to be taken for groundwater. All field and analytical Standard Operating Procedures (SOPs) necessary in the sampling and analysis of these 3 groundwater samples are included in the SAP. The results will determine if continued LTM is required at the site, or if the site can be considered for site closure.

Reason for Change: Sampling is to be conducted to evaluate the effectiveness of the ORC Advanced injections conducted in November 2011. Due to the construction of the new hangar at the BP Wells site, several wells were abandoned, and three wells were installed for the sampling effort. Samples will be collected and analyzed for the same COCs as included in the LTM plan. Results of this sampling event will provide information to be used in determining the level of success of the ORC Advanced injections. A minimum of two sampling events will be conducted. Changes to the sampling plan are in accordance with the decision rules established in the April 2010 Petroleum Sites SAP, and the data collected based on this FTMR will follow the decision rules for BP Wells established in the SAP.

Recommended Disposition: Verification of acceptance of the revised sampling program via approval of this FTMR via e-mail approval from Tetra Tech PM, BRAC PMO RPM, and FDEP (attached in project file).


Quality Assurance Manager (QAPP lead developer)

6-4-12
Date

Approved Disposition:



Project/Task Order Manager (Signature)

6/5/12

Date

Distribution:

Program/Project File – 112G02267

Project/Task Order Manager – Robert Simcik

Field Operations Leader – David Siefkin

BRAC PMO RPM – Art Sanford

Other: _____

ATTACHMENT 1

Table

TABLE 1
BP Wells
ANALYTICAL SAMPLING SUMMARY

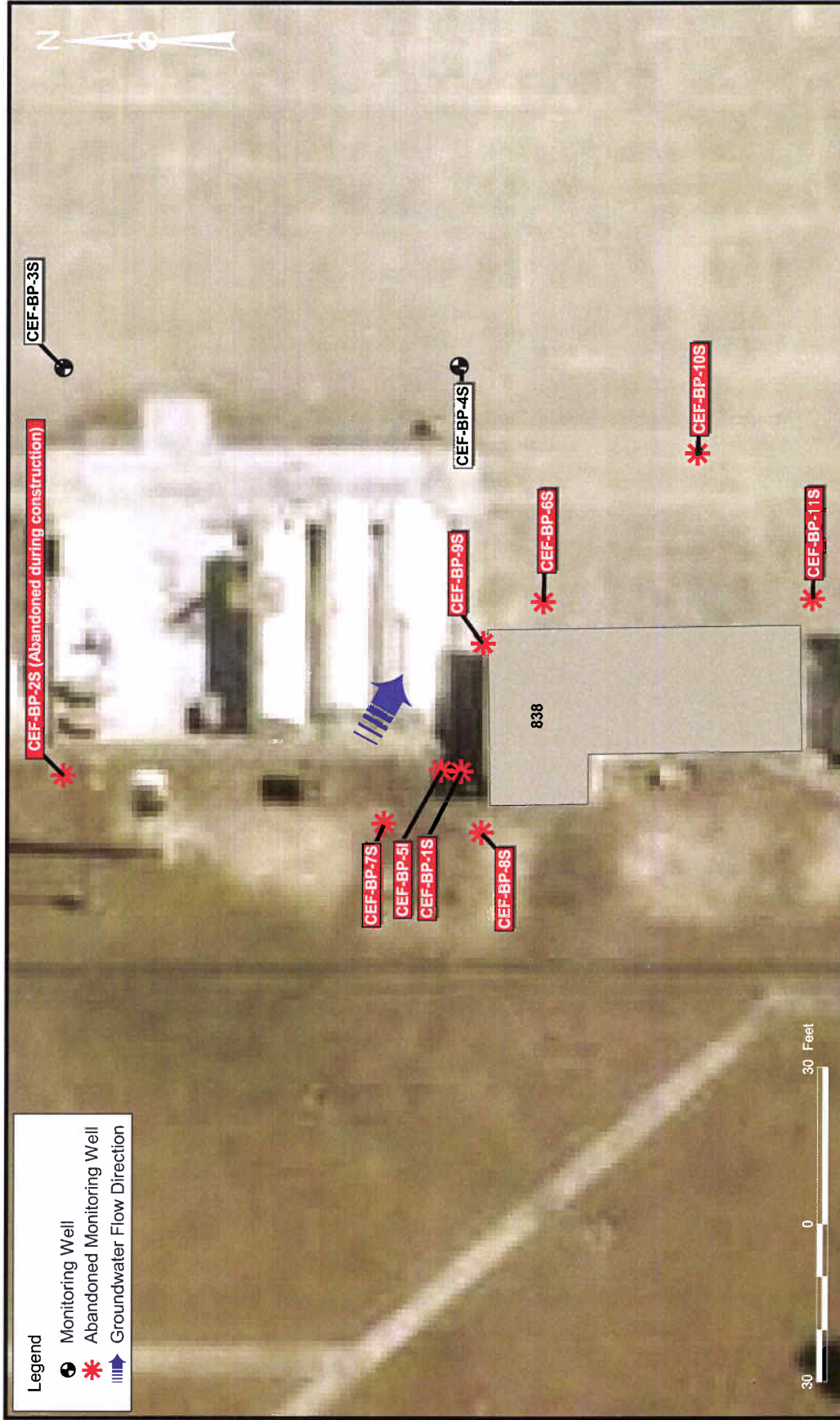
Field Task Modification Request 03
 Naval Air Station Cecil Field
 Jacksonville, Florida

GROUNDWATER				
COC	# of Samples	Sample IDs	# of QC Samples	Laboratory Method ¹
VOCs: BTEX/Isopropylbenzene/1,2,4-trimethylbenzene/1,3,5-trimethylbenzene	3	CEF-BP-1SR, CEF-BP-6SR, CEF-BP-12S	1 Duplicate	SW 846 8260B
PAHs: 1-methylnaphthalene/2-methylnaphthalene/naphthalene				8270 SIM
TRPH				FL-PRO

1 - Laboratory SOPs are included in Attachment 4.

ATTACHMENT 2

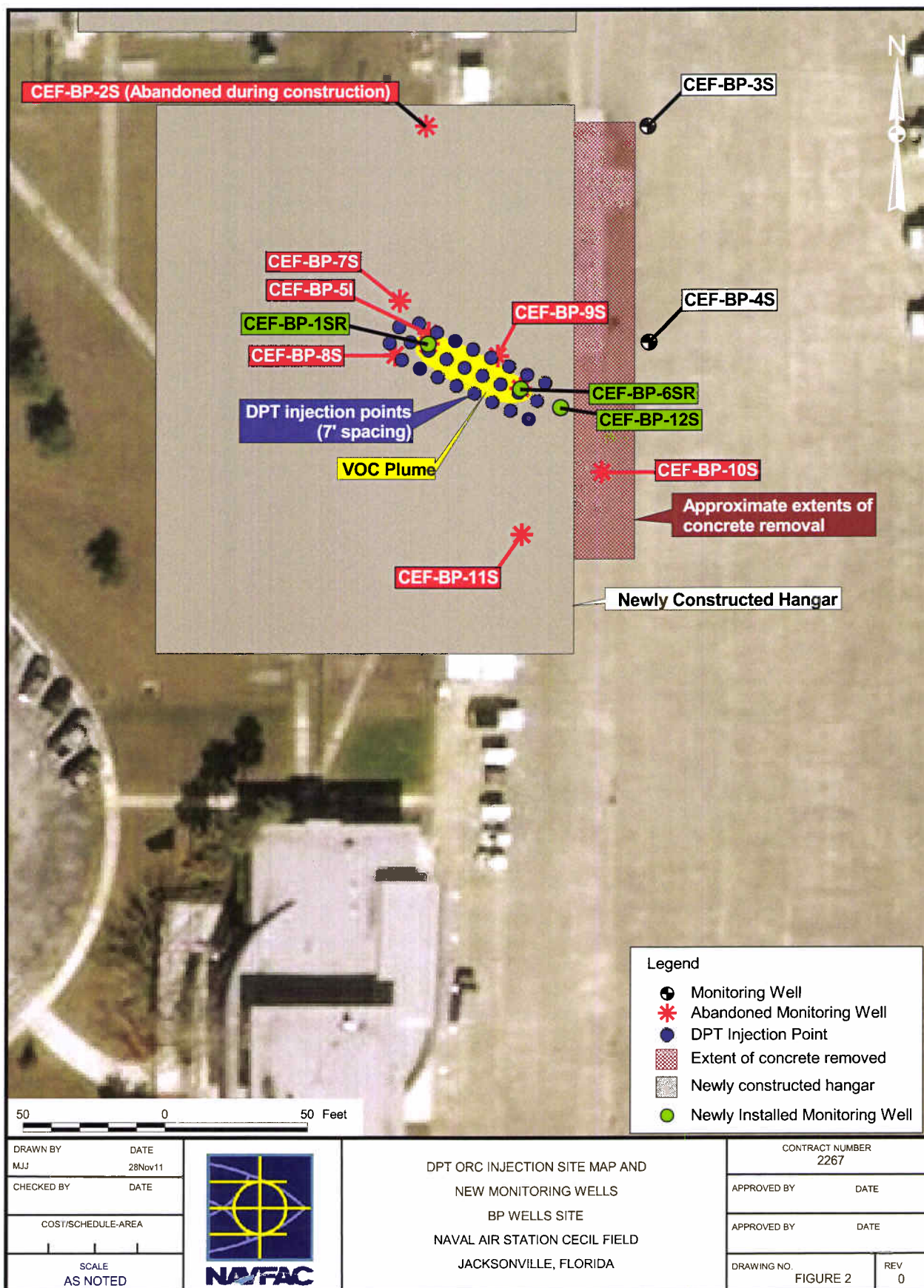
Figures



Legend

- Monitoring Well
- Abandoned Monitoring Well
- Groundwater Flow Direction

		MONITORING WELL LOCATION MAP BP WELLS SITE NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA		DRAWN BY CONTRACT NUMBER 2267
DATE 22Nov11	CHECKED BY MJJ	DATE DATE	APPROVED BY DATE	APPROVED BY DATE
COST/SCHEDULE AREA		DRAWING NO. FIGURE 1		
SCALE AS NOTED		REV 0		





TETRA TECH NUS

FIELD TASK MODIFICATION REQUEST FORM

LTM/NAS Cecil Field
Project/Installation Name

CTO JM09, 112G02267
CTO & Project Number

03
Task Mod. Number

SAP for BOA Petroleum Sites (Mar 2011)
Modification To (e.g. Work Plan)

Building 46
Site/Sample Location

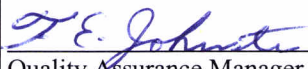
6/6/2012
Date

Activity Description: At Building 46, eight wells are being sampled on a semi-annual basis to monitor the groundwater COC concentrations by comparing the results against FDEP Groundwater Cleanup Target Levels (GCTLs) and Natural Attenuation Default Criteria (NADCs). The original sampling plan included nine wells being sampled on a quarterly basis, but FTMR Task Modification Number 02 revised the plan to eight wells on a semi-annual basis, with CEF-046-27D being eliminated from LTM. Based on a comment by FDEP on the Annual Building 46 Groundwater Monitoring Report, September 2011, which stated that "the Navy should prepare to install a shallow well or wells to monitor contaminant transport in the shallow zone and determine groundwater flows in that zone," the Navy directed Tetra Tech to investigate and propose a new well location. Solutions-IES and Tetra Tech each measured groundwater levels in the area, and it was confirmed that the shallow groundwater flow direction is southwest. Tetra Tech proposed installing shallow well CEF-046-32S near existing intermediate well CEF-046-261, and the proposal was accepted by the Navy and FDEP on April 6, 2012. CEF-046-32S was installed April 13, 2012 and was sampled April 24, 2012. The sample was analyzed for select VOCs, select PAHs, TRPH, and sulfate, and all results were non-detect or significantly less than their respective GCTL. Therefore, the BCT agreed at the May 2012 BCT meeting (Minute 2742) that CEF-046-32S is an appropriate downgradient well for the LTM plan, and will be included in future monitoring events.

Table 1 shows the parameters and sampling locations, and Figure 1 presents the wells to be sampled at Building 46, including the new well CEF-046-32S.

Reason for Change: An additional shallow downgradient well was required to ensure that contamination was not migrating off-site. CEF-046-32S was installed and determined to be an appropriate shallow downgradient monitoring well.

Recommended Disposition: Verify acceptance of the revised sampling program via approval of this FTMR by e-mail approval from Tetra Tech PM, NAVFAC SE RPM, and FDEP; and attach these emails to this FTMR and add them to the project file.



Quality Assurance Manager (QAPP lead developer)

6-7-12

Date

Approved Disposition:



Project/Task Order Manager (Signature)

6/7/12

Date

Distribution:

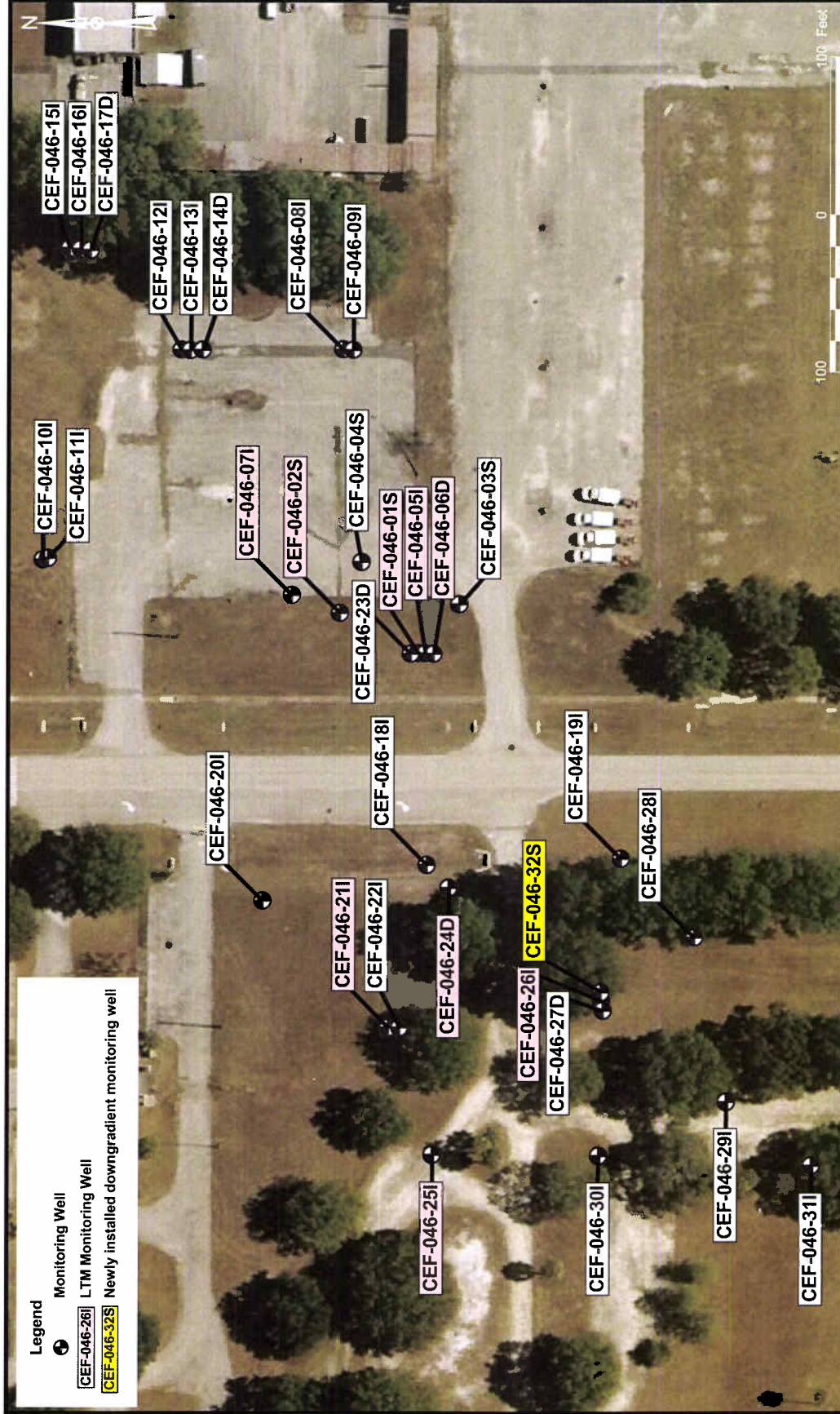
Program/Project File – 112G02267
Project/Task Order Manager – Robert Simcik
Field Operations Leader – Kara Wimble
BRAC PMO RPM – Art Sanford

Other: _____

TABLE 1
BUILDING 46
ANALYTICAL SAMPLING SUMMARY

Field Task Modification Request 03
Naval Air Station Cecil Field
Jacksonville, Florida

GROUNDWATER				
COC	# of Samples	Well IDs	# of QC Samples	Laboratory Method
VOCs: Benzene, toluene, ethylbenzene, xylenes, MTBE	7	CEF-046-01S, CEF-046-02S, CEF-046-05I, CEF-046-07I, CEF-046-21I, CEF-046-24D, CEF-046-26I, CEF-046-32S	1 duplicate, 1 MS/MSD	SW-846 8260B
PAHs: 1-methylnaphthalene, 2-methylnaphthalene, naphthalene				SW-846 8270 SIM
TRPH				FL-PRO
Sulfate	8	CEF-046-01S, CEF-046-02S, CEF-046-05I, CEF-046-06D, CEF-046-07I, CEF-046-21I, CEF-046-24D, CEF-046-26I, CEF-046-32S		SW-846 9056A/EPA 300.0



DRAWN BY MJJ		DATE 05Jun12		CONTRACT NUMBER 2267	
CHECKED BY		DATE		APPROVED BY	
COST/SC-HEDULE AREA		DATE		APPROVED BY	
SCALE AS NOTED		DRAWING NO. FIGURE 1		REV 0	

MONITORING WELL MAP

BUILDING 46

NAVAL AIR STATION CECIL FIELD

JACKSONVILLE, FLORIDA

